What is claimed is:

- 1. A method for fabricating a ferroelectric memory device, comprising the steps of:
- 5 al) forming a lower electrode on a predetermined surface of a semiconductor substrate;
 - b1) forming a metal oxide layer over a surface of the lower electrode and a surface of the semiconductor substrate;
- 10 c1) forming an inter layer dielectric film over the metal oxide layer;
 - d1) performing a blanket etching for the inter layer dielectric film and the metal oxide layer in order to expose an upper surface of the lower electrode; and
- el) forming an opening which has a predetermined depth, wherein the opening is obtained by removing only the metal oxide layer between the inter layer dielectric film and the lower electrode through a selective etching process.
- 2. The method as recited in claim 1, wherein the metal oxide layer is formed by using one of an Al_2O_3 layer, an TiO_2 layer, a TaO_2 layer, a ZrO_2 layer, and a HfO_2 layer.
- 3. The method as recited in claim 1, wherein a thickness of the metal oxide layer ranges from about 1 $\mathring{\text{A}}$ to about 500 $\mathring{\text{A}}$.

- 4. The method as recited in claim 1, wherein a wet etching is carried out by using a selective etching process.
- 5. The method as recited in claim 4, wherein the wet selective etching process is carried out by using an etching solution containing at least one selected from a group of sulfuric acid, nitric acid and phosphoric acid.
- 6. The method as recited in claim 5, wherein a concentration of the etching solution for the wet selective etching process ranges from about 0 % to about 50 %.
 - 7. The method as recited in claim 4, wherein the wet etching process is carried out by using an etching solution containing a ammonia (NH_4OH) liquid or a hydrogen peroxide (H_2O_2) liquid.

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- 8. The method as recited in claim 7, wherein a concentration of the etching solution containing the 20 ammonia (NH₄OH) liquid or hydrogen peroxide ($\rm H_2O_2$) liquid ranges from about 0 % to about 50 %.
 - 9. The method as recited in claim 9, comprising the steps of:
- a2) forming a ferroelectric layer over the lower electrode and inter layer dielectric film; and
 - b2) forming an upper electrode over the ferroelectric

layer formed on the lower electrode.

- 10. The method as recited in claim 1, wherein the lower electrode is constituted sequentially with an platinum (Pt) layer, an iridium oxide (IrOx) layer and an iridium (Ir) layer.
- 11. The method as recited in claim 10, wherein the ferroelectric layer is constituted with one of materials of (Bi, La) $_4$ Ti $_3$ O $_{12}$ (BLT), SrBi $_2$ Ta $_2$ O $_9$ (SBT), SrBi $_2$ (Tal-x, Nbx) $_2$ O $_9$ (SBTN), and (Pb, Zr)TiO $_3$ (PZT).